What is claimed is:

- 1. A spacer for attaching onto a printed wiring board
- 2 to which is fixed an electronic component having a component
- 3 package, on one of whose surfaces a connection terminal
- 4 is arranged, said spacer comprising an elastic member with
- 5 no ends thereof,
- 6 said elastic member being adapted to be detachably
- 7 attached to the printed wiring board in such a way as to
- 8 enclose the electronic component to seal a gap between
- 9 the electronic component and the printed wiring board,
- 10 and
- said elastic member being adapted to be attached
- 12 to and detached from the printed wiring board by exploiting
- 13 elastic deformation of said elastic member.
- 1 2. A spacer as set forth in claim 1, wherein said
- 2 elastic member has a frame-like shape with an inner outline
- 3 which is similar in shape to an outline of the component
- 4 package, and is smaller in length than the outline of the
- 5 component package, and is thinner than the gap between
- 6 the electronic component and the printed wiring board.
- 3. A spacer as set forth in claim 1,
- 2 wherein said elastic member has a frame-like shape
- 3 with an inner outline which is similar in shape and length
- 4 to an outline of the component package and is thinner than

- 5 the gap between the electronic component and the printed
- 6 wiring board, and
- 7 wherein the frame-like shape has a pair of hook
- 8 portions for projecting into the gap between the electronic
- 9 component and the printed wiring board, the hook portions
- 10 being provided on the inner outline of the frame-like shape
- 11 to oppose to each other.
 - 1 4. A spacer as set forth in claim 2,
 - wherein the frame-like shape has an outer outline
 - 3 greater in length than the outline of the component package,
 - 4 and
 - 5 wherein the frame-like shape has at least one slit
 - 6 thereon extending from the inner outline toward the outer
 - 7 outline of the frame-like shape.
- 1 5. A spacer as set forth in claim 3,
- wherein the frame-like shape has an outer outline
- 3 greater in length than the outline of the component package,
- 4 and
- 5 wherein the frame-like shape has at least one slit
- 6 thereon extending from the inner outline toward the outer
- 7 outline of the frame-like shape.
- 1 6. A spacer as set forth in claim 4, wherein the
- 2 frame-like shape has a round hole formed at one end of
- 3 the slit.

- 7. A spacer as set forth in claim 5, wherein the
- 2 frame-like shape has a round hole formed at one end of
- 3 the slit.
- 1 8. A spacer as set forth in claim 6, wherein the
- 2 round hole functions as a jig hole for use in removing
- ·3 the spacer from the electronic component and the printed
- 4 wiring board.
- 9. A spacer as set forth in claim 7, wherein the
- 2 round hole functions as a jig hole for use in removing
- 3 the spacer from the electronic component and the printed
- 4 wiring board.
- 1 10. A spacer as set forth in claim 1, wherein said
- 2 elastic member, while in contact with the printed wiring
- 3 board, is attached around the component package by pressure
- 4 due to the elastic deformation of said elastic member.
- 1 11. A spacer as set forth in claim 10, wherein said
- 2 elastic member has a cross-sectional shape with a
- 3 projecting portion thereof, which projects into the gap
- 4 between the electric component and the printed wiring board
- 5 when said elastic member is attached to the printed wiring
- 6 board.
- 1 12. A spacer as set forth in claim 1,

- 2 wherein said elastic member has a frame-like shape
- 3 with an inner outline which is similar in shape to an outline
- 4 of the component package, and said elastic member, while
- 5 in contact with the printed wiring board, is attached around
- 6 the component package by pressure due to the elastic
- 7 deformation of said elastic member, and
- 8 wherein the frame-like shape has a catch protrusion
- 9 on its inner outline, which catch protrusion is adapted
- 10 to protrude into the gap between the electronic component
- 11 and the printed wiring board.
 - 1 13. A printed circuit board, comprising:
 - an electronic component having a component package,
 - 3 on one of whose surfaces a connection terminal is arranged;
 - 4 a printed wiring board to which said electronic
 - 5 component is fixed; and
 - a spacer formed as an elastic member with no ends
 - 7 thereof detachably attached to said printed wiring board
- 8 in such a way as to enclose said electronic component to
- 9 seal a gap between said electronic component and said
- 10 printed wiring board, said elastic member being adapted
- 11 to be attached to and detached from said printed wiring
- 12 board by exploiting elastic deformation of the elastic
- member.
 - 1 14. A printed circuit board as set forth in claim
 - 2 13, wherein the elastic member has a frame-like shape with

- 3 an inner outline which is similar in shape to an outline
- 4 of the component package, and is smaller in length than
- 5 the outline of the component package, and is thinner than
- 6 the gap between the electronic component and said printed
- 7 wiring board.
- 1 15. A printed circuit board as set forth in claim
- 2 13, wherein the elastic member, while in contact with said
- 3 printed wiring board, is attached around the component
- 4 package by pressure due to the elastic deformation of the
- 5 elastic member.
- 1 16. A printed circuit board as set forth in claim
- 2 13, wherein the elastic member has a frame-like shape with
- 3 an inner outline which is similar in shape to an outline
- 4 of the component package, and the elastic member, while
- 5 in contact with said printed wiring board, is attached
- 6 around the component package by pressure due to the elastic
- 7 deformation of the elastic member, and
- 8 wherein the frame-like shape has a catch protrusion
- 9 on its inner outline, which catch protrusion is adapted
- 10 to protrude into the gap between the electronic component
- 11 and said printed wiring board.
 - 1 17. Electronic equipment, comprising a printed
 - 2 circuit board which includes: an electronic component
 - 3 having a component package, on one of whose surfaces a

- 4 connection terminal is arranged; a printed wiring board
- 5 to which the electronic component is fixed; and a spacer
- 6 formed as an elastic member with no ends thereof detachably
- 7 attached to the printed wiring board in such a way as to
- 8 enclose the electronic component to seal a gap between
- 9 the electronic component and the printed wiring board,
- 10 the elastic member being adapted to be attached to and
- 11 detached from the printed wiring board by exploiting
- 12 elastic deformation of the elastic member.
 - 1 18. Electronic equipment as set forth in claim 17,
 - 2 wherein the elastic member has a frame-like shape with
 - 3 an inner outline which is similar in shape to an outline
 - 4 of the component package, and is smaller in length than
 - 5 the outline of the component package, and is thinner than
 - 6 the gap between the electronic component and the printed
- 7 wiring board.
- 1 19. Electronic equipment as set forth in claim 17,
- 2 wherein the elastic member, while in contact with the
- 3 printed wiring board, is attached around the component
- 4 package by pressure due to the elastic deformation of said
- 5 elastic member.
- 1 20. Electronic equipment as set forth in claim 17,
- 2 wherein the elastic member has a frame-like shape with
- 3 an inner outline which is similar in shape to an outline

- 4 of the component package, and the elastic member, while
- 5 in contact with the printed wiring board, is attached around
- 6 the component package by pressure due to the elastic
- 7 deformation of the elastic member, and
- 8 wherein the frame-like shape has a catch protrusion
- 9. on its inner outline, which catch protrusion is adapted
- 10 to protrude into the gap between the electronic component
- 11 and the printed wiring board.